



**FEATURES**

- Selected wavelength range
- Optimized for highest power output
- Other custom wavelengths available
- Very narrow spectral width

All dimensions are nominal values in inches unless otherwise specified.



**ELECTRO-OPTICAL CHARACTERISTICS AT 25°C**

PARAMETERS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Total Power Output, $P_o$	$I_F = 100\text{mA}$	10	15		mW
Peak Emission Wavelength, $\lambda_p$	$I_F = 20\text{mA}$	770	780	800	nm
Spectral Bandwidth at 50%, $\Delta\lambda$			25		nm
Half Intensity Beam Angle, $\theta$				80	
Forward Voltage, $V_F$	$I_F = 100\text{mA}$		1.4	1.8	Volts
Reverse Breakdown Voltage, $V_R$	$I_R = 10\mu\text{A}$	2	5		Volts
Rise Time, $T_R$			70		nsec
Fall Time, $T_F$			70		nsec

**ABSOLUTE MAXIMUM RATINGS AT 25°C**

Power Dissipation	180mW
Continuous Forward Current	100mA
Peak Forward Current (10 $\mu\text{s}$ , 400 Hz)	500mA
Reverse Voltage	2V
Storage and Operating Temperature Range	-55°C to 100°C
Maximum Junction Temperature	100°C
Lead Soldering Temperature (1/16" from case for 10 sec)	260°C